Milestone 7 - STL Initial Use On Air

A. Assumptions

- 1. STL put in use for NTSC operations as test
- 2. If combined with HDTV signal, helps HDTV transition

Task 8 - Encoder Available

A. Assumptions

- 1. Technical info to start encoder design available at time of NPRM
- 2. Full technical documentation available at Final Report & Order
- 3. No commitment to special ICs until Final Report & Order
- 4. Encoders available in sufficient quantity to meet demand

Task 9 - Exciter Available

A. Assumptions

- 1. Technical info to start exciter design available at time of NPRM
- 2. Full technical documentation available at Final Report & Order
- 3. No commitment to special ICs until Final Report & Order
- 4. Exciters available in sufficient quantity to meet demand

Task 10 - Transmitter Modification

A. Assumptions

- 1. Transmitters currently installed can be modified without difficulty
- 2. Existing support facilities are adequate

Task 11 - Overall System Performance Analysis

A. Assumptions

- 1. Overall system passes proof-of-performance on first try
- 2. Dummy load & antenna tests

Milestone 12 - Initial Test Signals On Air

A. Assumptions

- 1. Station goes on air with test signals until Program Test Auth, received
- 2. Test signals used for field test of new system

Task 13 - FCC Program Test Authority

A. Assumptions

1. FCC grants immediate, automatic Program Test Authorization by FAX

Task 14 - FCC License Grant

A. Assumptions

1. FCC grants final license with moderately short turnaround

Milestone 15 - Initial Programming On Air

A. Assumptions

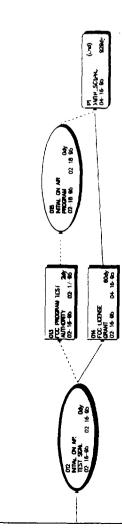
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Project: XMTR_SC1.PRJ Revision: 7

TRANSMITTER: SINGLE-CHANNEL, COMPATIBLE - SCENARIO 1

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IS/WP-2 PERT Chart

Supporting List of Assumptions

Transmitter: Simulcast w/Existing Tower - Scenario 2 - Alternative A

General Assumptions

- 1. Station Assignment process occurs following FCC Final Report & Order
- 2. The average station will experience litigation delays of a year
- 3. Governmental approval times are typical of those experienced previously
- 4. Station is not involved in multi-station tower facility
- 5. Station has existing tower with space & wind loading for additional antenna
- 6. Some strengthening of tower is required to accommodate additional load
- 7. Transmitter building does not have room for additional transmitter
- 8. Local approvals are required for transmitter building expansion
- 9. Local approvals are required for addition of antenna to tower
- 10. Spectrum is ultimately found for station-owned STL
- 11. Space exists for additional STL antennas at both ends of link

Specific Assumptions

Milestone 1 - Advisory Committee Final Report

A. Assumptions

- 1. Advisory Committee completes final report on current schedule
- 2. Advisory Committee report recommends system choice
- 3. No litigation that impedes process

Task 2 - NPRM Generation & Channel Allotment

A. Assumptions

- 1. FCC issues NPRM on announced schedule
- 2. Channels are allotted to cities at release of NPRM
- 3. FCC accepts Advisory Committee recommendation on system choice
- 4. No litigation that impedes process

Task 3 - Comment & Decision Period

A. Assumptions

- 1. Allows time for comments & reply comments
- 2. Provides time for preparation of Final Report & Order
- 3. No litigation that impedes process

Milestone 4 - FCC Report & Order

A. Assumptions

1. Final Report & Order confirms choice of single system.

Task 5 - Station Assignment Process

A. Assumptions

- 1. Station channel assignment conducted after Final Report & Order
- 2. Stations cannot begin designs until after channel assignment
- 3. No litigation that impedes process

Task 6 - Litigation

- 1. Stations will experience some delay from litigation
- 2. All litigation, wherever in process, aggregated at this point
- 3. Litigation is not extended, is resolved on expedited basis
- 4. Litigation affects certainty of channel assignment for stations

Task 7 - Antenna/Tower Design

A. Assumptions

- 1. Station will not begin final design until channel is certain
- 2. Preliminary work done well in advance
- 3. Tower reinforcement, antenna mounting, & transmission line included
- 4. Side-mounting of antennas for selected system is possible
- 5. Design is for single station on its own tower
- 6. Modelling of antenna interactions is not necessary

Task 8 - FCC Construction Permit Issuance

A. Assumptions

- 1. CP grant dependent only on technical design
- 2. CP grant not dependent on local approvals
- 3. CP grant in semi-realistic time after application

Task 9 - Tower Alteration

A. Assumptions

- 1. Tower reinforcement required to support additional antenna/xmsn line
- 2. Required relocation of other antennas is minimal
- 3. Antenna can be mounted without major tower rebuild

Task 10 - Antenna Fabrication & Delivery

A. Assumptions

- 1. Antenna fab will not begin before CP grant
- 2. Contingent order placed well in advance to hold place for delivery
- 3. Antenna manufacturing capacity sufficient to meet demand

Task 11 - Antenna & Transmission Line Installation

A. Assumptions

1. Weather not a factor in installation completion within slack time

Task 12 - Local Zoning Permits

- 1. Zoning Permit required for extension of transmitter building
- 2. Zoning Permit granted in typical time

Task 13 - Local Planning Approval

A. Assumptions

- 1. Plan approvals required for transmitter building extension
- 2. Plan approvals required for tower reinforcement & antenna addition
- 3. Plan approvals granted in typical time

Task 14 - Building Construction or Alteration

A. Assumptions

- 1. Building construction/alteration not "fast-tracked"
- 2. Building construction/alteration in typical time

Milestone 15 - Auxiliary Link Spectrum Allocation

A. Assumptions

- 1. Separate STLs are required for Simulcast & NTSC channels
- 2. FCC allocates sufficient spectrum for Auxiliaries at time of Final R&O
- 3. Spectrum may be same as currently used for STLs, etc.
- 4. Spectrum sharing w/existing analog FM STLs is technically possible
- 5. Simulcast & NTSC Auxiliaries may share existing paths/channels

Task 16 - STL Frequency Search

A. Assumptions

1. Frequency search ultimately successful

Task 17 - STL CP & License

A. Assumptions

1. STL CP & license granted in "nominal" time

Task 18 - STL Antenna & Transmission Line Installation

A. Assumptions

- 1. STL antenna/xmsn line installation delayed for good weather
- 2. Weather not a factor in installation completion within slack time
- 3. Adequate mounting space available without significant construction

Task 19 - STL Transmitter & Receiver Installation

- 1. STL transmitter/receiver installation in parallel with antenna/xmsn line
- 2. Adequate equipment space available in existing facility

Task 20 - Negotiate Telco STL

A. Assumptions

- 1. Local common carrier can interconnect Studio & Transmitter
- 2. Circuits available with good reliability & technical characteristics
- 3. Negotiations in parallel w/microwave frequency search, as backup
- 4. Microwave frequency search or channel sharing w/NTSC successful

Task 21 - STL Performance Analysis

A. Assumptions

- 1. STL passes proof-of-performance test on first try
- 2. Path reliability is good

Milestone 22 - STL Initial Use On Air

A. Assumptions

- 1. STL put in use for NTSC operations as test
- 2. If combined STL, helps transition to new system

Task 23 - Encoder Available

A. Assumptions

- 1. Technical info to start encoder design available at time of NPRM
- 2. Full technical documentation available at Final Report & Order
- 3. No commitment to special ICs until Final Report & Order
- 4. Encoders available in sufficient quantity to meet demand

Task 24 - Exciter/Transmitter Available

A. Assumptions

- 1. Technical info to start exciter design available at time of NPRM
- 2. Full technical documentation available at Final Report & Order
- 3. No commitment to special ICs until Final Report & Order
- 4. Exciters & transmitters available in sufficient quantity to meet demand

Task 25 - Transmitter Installation

- 1. Transmitters available as needed without difficulty
- 2. Support facilities must be constructed in transmitter bldg extension

Task 26 - Overall System Performance Analysis

A. Assumptions

- 1. Overall Simulcast system passes proof-of-performance on first try
- 2. Dummy load & antenna tests

Milestone 27 - Initial Test Signals On Air

A. Assumptions

- 1. Station goes on air with test signals until Program Test Auth. received
- 2. Test signals used for field test of new system

Task 28 - FCC Program Test Authority

A. Assumptions

1. FCC grants immediate, automatic Program Test Authorization by FAX

Task 29 - FCC License Grant

A. Assumptions

1. FCC grants final license with moderately short turnaround

Milestone 30 - Initial Programming On Air

A. Assumptions

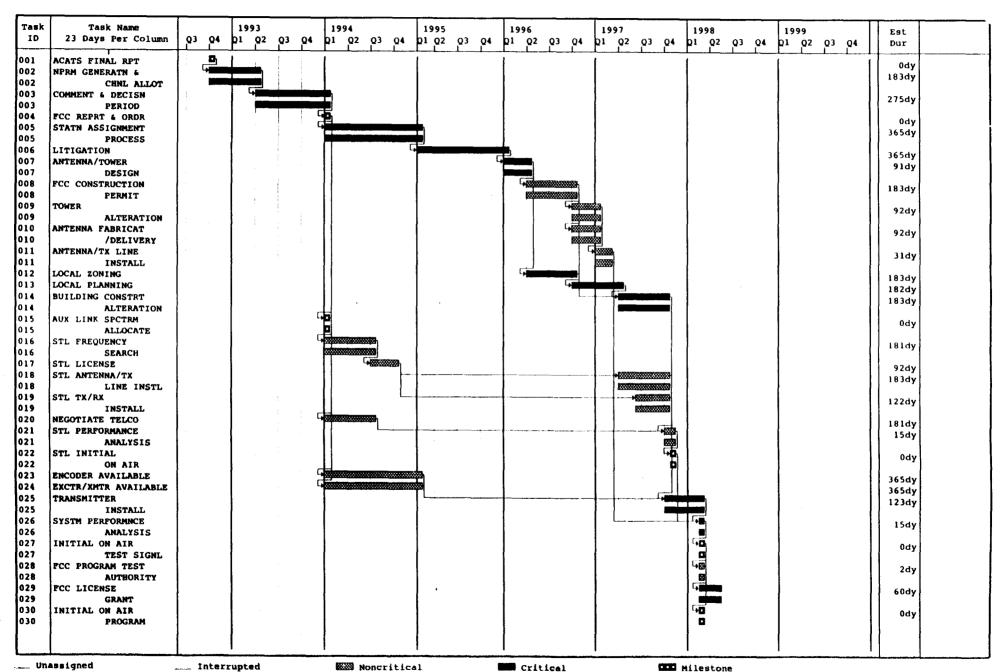
1. Program Test permits airing programming until license received

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Project: XMTR_SC2.PRJ Revision: 24

XMTR: SIMULCAST W/EXISTING TOWER - SCENARIO 2 - TYPICAL



IS/WP-2 PERT Chart

Supporting List of Assumptions

Transmitter: Simulcast w/Existing Tower - Scenario 2 - Alternative B

General Assumptions

- 1. Station Assignment process occurs concurrent with FCC Final Report & Order
- 2. Station will experience no litigation delays
- 3. Governmental approval times are "nominal," i.e. very short
- 4. Station is not involved in multi-station tower facility
- 5. Station has existing tower with space & wind loading for additional antenna
- 6. Some strengthening of tower is required to accommodate additional load
- 7. Transmitter building does not have room for additional transmitter
- 8. Local approvals are required for transmitter building expansion
- 9. Local approvals are required for addition of antenna to tower
- 10. Spectrum is ultimately found for station-owned STL
- 11. Space exists for additional STL antennas at both ends of link

Specific Assumptions

Milestone 1 - Advisory Committee Final Report

A. Assumptions

- 1. Advisory Committee completes final report on current schedule
- 2. Advisory Committee report recommends system choice
- 3. No litigation that impedes process

Task 2 - NPRM Generation & Channel Allotment

A. Assumptions

- 1. FCC issues NPRM on announced schedule
- 2. Channels are allotted to cities at release of NPRM
- 3. FCC accepts Advisory Committee recommendation on system choice
- 4. No litigation that impedes process

Task 3 - Comment & Decision Period

A. Assumptions

- 1. Allows time for comments & reply comments
- 2. Provides time for preparation of Final Report & Order
- 3. No litigation that impedes process

Milestone 4 - FCC Report & Order

A. Assumptions

1. Final Report & Order confirms choice of single system

Task 5 - Station Assignment Process

A. Assumptions

- 1. Station channel assignment made concurrently w/Final Report & Order
- 2. Stations cannot begin designs until after channel assignment
- 3. No litigation that impedes process

Task 6 - Litigation

- 1. No delay from litigation once Final Report & Order issued
- 2. No uncertainty of channel assignment for stations

Task 7 - Antenna/Tower Design

A. Assumptions

- 1. Station will not begin final design until channel is certain
- 2. Preliminary work done well in advance
- 3. Tower reinforcement, antenna mounting, & transmission line included
- 4. Side-mounting of antennas for selected system is possible
- 5. Design is for single station on its own tower
- 6. Modelling of antenna interactions is not necessary

Task 8 - FCC Construction Permit Issuance

A. Assumptions

- 1. CP grant dependent only on technical design
- 2. CP grant not dependent on local approvals
- 3. CP grant in "nominal" time after application

Task 9 - Tower Alteration

A. Assumptions

- 1. Tower reinforcement required to support additional antenna/xmsn line
- 2. Required relocation of other antennas is minimal
- 3. Antenna can be mounted without major tower rebuild

Task 10 - Antenna Fabrication & Delivery

A. Assumptions

- 1. Antenna fab will not begin before CP grant
- 2. Contingent order placed well in advance to hold place for delivery
- 3. Antenna manufacturing capacity sufficient to meet demand

Task 11 - Antenna & Transmission Line Installation

A. Assumptions

1. Weather not a factor despite small slack time available

Task 12 - Local Zoning Permits

- 1. Zoning Permit required for extension of transmitter building
- 2. Zoning Permit granted in "nominal" time

Task 13 - Local Planning Approval

A. Assumptions

- 1. Plan approvals required for transmitter building extension
- 2. Plan approvals required for tower reinforcement & antenna addition
- 3. Plan approvals granted in "nominal" time

Task 14 - Building Construction or Alteration

A. Assumptions

- 1. Building construction/alteration is "fast-tracked"
- 2. Building construction/alteration on overtime basis

Milestone 15 - Auxiliary Link Spectrum Allocation

A. Assumptions

- 1. Separate STLs are required for Simulcast & NTSC channels
- 2. FCC allocates sufficient spectrum for Auxiliaries at time of Final R&O
- 3. Spectrum may be same as currently used for STLs, etc.
- 4. Spectrum sharing w/existing analog FM STLs is technically possible
- 5. Simulcast & NTSC Auxiliaries may share existing paths/channels

Task 16 - STL Frequency Search

A. Assumptions

1. Frequency search ultimately successful

Task 17 - STL CP & License

A. Assumptions

1. STL CP & license granted in "nominal" time

Task 18 - STL Antenna & Transmission Line Installation

A. Assumptions

- STL antenna/xmsn line install cannot be delayed for good weather
- 2. Weather not a factor in installation completion within slack time
- 3. Adequate mounting space available without significant construction

Task 19 - STL Transmitter & Receiver Installation

- 1. STL transmitter/receiver installation in parallel with antenna/xmsn line
- 2. Adequate equipment space available in existing facilities

Task 20 - Negotiate Telco STL

A. Assumptions

- 1. Local common carrier can interconnect Studio & Transmitter
- 2. Circuits available with good reliability & technical characteristics
- 3. Negotiations in parallel w/microwave frequency search, as backup
- 4. Microwave frequency search or channel sharing w/NTSC successful

Task 21 - STL Performance Analysis

A. Assumptions

- 1. STL passes proof-of-performance test on first try
- 2. Path reliability is good

Milestone 22 - STL Initial Use On Air

A. Assumptions

- 1. STL put in use for NTSC operations as test
- 2. If combined STL, helps transition to new system

Task 23 - Encoder Available

A. Assumptions

- 1. Technical info to start encoder design available at time of NPRM
- 2. Full technical documentation available at Final Report & Order
- 3. No commitment to special ICs until Final Report & Order
- 4. Encoders available in sufficient quantity to meet demand

Task 24 - Exciter/Transmitter Available

A. Assumptions

- 1. Technical info to start exciter design available at time of NPRM
- 2. Full technical documentation available at Final Report & Order
- 3. No commitment to special ICs until Final Report & Order
- 4. Exciters & transmitters available in sufficient quantity to meet demand

Task 25 - Transmitter Installation

- 1. Transmitters available as needed without difficulty
- 2. Support facilities must be constructed in transmitter bldg extension

Task 26 - Overall System Performance Analysis

A. Assumptions

- 1. Overall Simulcast system passes proof-of-performance on first try
- 2. Dummy load & antenna tests

Milestone 27 - Initial Test Signals On Air

A. Assumptions

- 1. Station goes on air with test signals until Program Test Auth. received
- 2. Test signals used for field test of new system

Task 28 - FCC Program Test Authority

A. Assumptions

1. FCC grants immediate, automatic Program Test Authorization by FAX

Task 29 - FCC License Grant

A. Assumptions

1. FCC grants final license with moderately short turnaround

Milestone 30 - Initial Programming On Air

A. Assumptions

1. Program Test permits airing programming until license received

Project: XMTRMSC2.PRJ Revision: 25

XMTR: SIMULCAST W/EXISTING TOWER - SCENARIO 2 - MINIMUM

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IS/WP-2 PERT Chart

Supporting List of Assumptions

Transmitter: Simulcast w/New Tower Required - Scenario 3 - Alternative A

General Assumptions

- 1. Station Assignment process occurs following FCC Final Report & Order
- 2. The average station will experience litigation delays of a year
- 3. Governmental approval times are typical of those experienced previously
- 4. Station is not involved in multi-station tower facility
- 5. Station's existing tower has inadequate capacity for additional antenna
- 6. Existing tower site has insufficient room for additional tower
- 7. New tower & transmitter building required at new site
- 8. Local approvals are required for new transmitter building
- 9. Local approvals are required for new tower
- 10. Spectrum is ultimately found for station-owned STL
- 11. Space exists for additional STL antennas at both ends of link

Specific Assumptions

Milestone 1 - Advisory Committee Final Report

A. Assumptions

- 1. Advisory Committee completes final report on current schedule
- 2. Advisory Committee report recommends system choice
- 3. No litigation that impedes process

Task 2 - NPRM Generation & Channel Allotment

A. Assumptions

- 1. FCC issues NPRM on announced schedule
- 2. Channels are allotted to cities at release of NPRM
- 3. FCC accepts Advisory Committee recommendation on system choice
- 4. No litigation that impedes process

Task 3 - Comment & Decision Period

A. Assumptions

- 1. Allows time for comments & reply comments
- 2. Provides time for preparation of Final Report & Order
- 3. No litigation that impedes process

Milestone 4 - FCC Report & Order

A. Assumptions

1. Final Report & Order confirms choice of single system

Task 5 - Station Assignment Process

A. Assumptions

- 1. Station channel assignment conducted after Final Report & Order
- 2. Stations cannot begin designs until after channel assignment
- 3. No litigation that impedes process

Task 6 - Litigation

- 1. Stations will experience some delay from litigation
- 2. All litigation, wherever in process, aggregated at this point
- 3. Litigation is not extended, is resolved on expedited basis
- 4. Litigation affects certainty of channel assignment for stations

Task 7 - Transmitter Site Acquisition

A. Assumptions

- 1. Station determines non-usability of existing tower well in advance
- 2. Station begins search for land in advance of FCC decision
- 3. Station waits for end of litigation before completing acquisition
- 4. Little suitable space available in major metropolitan areas
- 5. Sufficient space can ultimately be found on the market

Task 8 - Antenna/Tower Design

A. Assumptions

- 1. Station will not begin final design until channel & location are certain
- 2. Station will move existing NTSC channel to new site
- 3. Preliminary work done well in advance
- 4. Tower structure, antenna mounting, & transmission line included
- 5. Design is for single station on its own tower
- 6. Modelling of antenna interactions is not necessary

Task 9 - FAA Obstruction Clearance Approval

A. Assumptions

- 1. Site obtained is away from airports
- 2. Site obtained is away from flight corridors
- 3. No FAA control over spectrum-related matters

Task 10 - Environmental Impact Statement

A. Assumptions

- 1. Preparation cannot begin until site location is confirmed
- 2. Cannot be completed until antenna/tower design is complete
- 3. Principal concerns are tower aesthetics and radiation
- 4. Building and site infrastructure are not environmentally significant
- 5. Same statement can be used for all agencies requiring one

Task 11 - FCC Construction Permit (CP) Issuance

- 1. CP grant dependent on Environmental Impact Statement
- 1. CP grant dependent on technical design
- 2. CP grant not dependent on local approvals
- 3. CP grant in moderate, realistic time after application

Task 12 - Tower Construction

A. Assumptions

- 1. Construction can begin as soon as all approvals are received
- 2. No significant delays for weather
- 3. Relatively tall tower (1-2,000 feet)
- 4. Tower large enough for more than just HDTV antenna
- 5. Tower fully equipped including elevator, etc.

Task 13 - Antenna Fabrication & Delivery

A. Assumptions

- 1. Contingent order placed well in advance to hold place for delivery
- 2. Antenna fab will not begin before CP grant
- 3. Antenna fab will begin before all local approvals received
- 3. Antenna manufacturing capacity sufficient to meet demand

Task 14 - Antenna & Transmission Line Installation

A. Assumptions

1. Weather not a factor in installation completion within slack time

Task 15 - Local Zoning Permits

A. Assumptions

- 1. Zoning Permit required for both tower & building construction
- 2. Environmental Impact Statement sufficient to satisfy authorities
- 3. No litigation from local interests to preclude granting of permit
- 4. Zoning Permit granted in typical time

Task 16 - Local Planning Approval

A. Assumptions

- 1. Zoning approval required before Planning Approval
- 2. Plan approvals required for transmitter building
- 3. Plan approvals required for tower & antennas
- 4. Plan approvals granted in typical time

Task 17 - Building Construction

- 1. No existing transmitter building at new tower site
- 2. Building construction not "fast-tracked"
- 3. Building construction in typical time